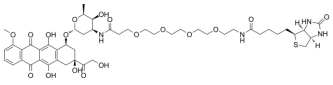
Dox-btn2

Cat. No.:	HY-153797
CAS No.:	3026061-31-1
Molecular Formula:	$C_{48}H_{64}N_4O_{18}S$
Molecular Weight:	1017.1
Target:	ADC Cytotoxin; Topoisomerase; Bacterial; HIV; HBV; Antibiotic; Apoptosis; Autophagy; Mitophagy; AMPK
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Anti-infection; Apoptosis; Autophagy; Epigenetics; PI3K/Akt/mTOR
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Dox-btn2 is a biotinylated derivative of Doxorubicin (HY-15142A), with a biotin label at the point of conjugation to doxorubicin at 3'-NH_2. Dox-btn2 can be used for cell imaging. While Doxorubicin is mainly accumulated in the nucleus, while Dox-btn2 is mainly located in the cytoplasm[1].
In Vitro	Dox-btn2 (1 μM; 6 h; Exc=531/40 nm and Emi=593/40 nm) exhibits visualization in U2OS cells, helps in situ mapping with Chem-map of small-molecule interactions with DNA and chromatin proteins[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yu Z, et al. Chem-map profiles drug binding to chromatin in cells. Nat Biotechnol. 2023 Jan 23.

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